



# 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: 04047

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                    |                                                                                                                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product form       | : Substance                                                                                                                                                                                                                                                                                  |
| Trade name         | : 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS                                                                                                                                                                                                                                            |
| EC-No.             | : 213-668-5                                                                                                                                                                                                                                                                                  |
| CAS-No.            | : 999-97-3                                                                                                                                                                                                                                                                                   |
| Product code       | : B-01342                                                                                                                                                                                                                                                                                    |
| Type of product    | : Amines                                                                                                                                                                                                                                                                                     |
| Formula            | : C <sub>6</sub> H <sub>19</sub> NSi <sub>2</sub>                                                                                                                                                                                                                                            |
| Chemical structure | :<br><div style="text-align: center;"><math display="block">\begin{array}{c} \text{CH}_3 \quad \text{H} \quad \text{CH}_3 \\   \quad   \quad   \\ \text{H}_3\text{C}-\text{Si}-\text{N}-\text{Si}-\text{CH}_3 \\   \quad   \quad   \\ \text{CH}_3 \quad \text{CH}_3 \end{array}</math></div> |
| Synonyms           | : Bis(trimethylsilyl)azane, Bis(trimethylsilyl)amine, 1,1,1,3,3,3- Hexamethyldisilazane, Hexamethyldisilazane                                                                                                                                                                                |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Industrial/Professional use spec | : Industrial<br>For professional use only           |
| Use of the substance/mixture     | : Manufacture of substances<br>Laboratory chemicals |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Bio-Chem Chemicals  
5455, Nicholson Road Science Market,  
Ambala Cantt. 13001 Haryana (India)  
+91-829541953  
[info@biofinechemical.com](mailto:info@biofinechemical.com) [www.biofinechemical.com](http://www.biofinechemical.com)

### 1.4. Emergency telephone number

Emergency number : + 91 99921 51495 (10.00am- 06.30pm) (Office Hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                                                   |      |
|-------------------------------------------------------------------|------|
| Flammable liquids, Category 2                                     | H225 |
| Acute toxicity (oral), Category 4                                 | H302 |
| Acute toxicity (dermal), Category 3                               | H311 |
| Acute toxicity (inhalation:gas) Category 3                        | H331 |
| Skin corrosion/irritation, Category 1, Sub-Category 1B            | H314 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Toxic in contact with skin. Toxic if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H311+H331 - Toxic in contact with skin or if inhaled.  
H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP): P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, eye protection, face protection, protective gloves.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Nordic countries regulation

##### Denmark

MAL code

: 00-6 (Executive Order No. 301 from 1993)

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

| Name                              | Product identifier                     | %   |
|-----------------------------------|----------------------------------------|-----|
| 1,1,1,3,3,3-HEXAMETHYL DISILAZANE | CAS-No.: 999-97-3<br>EC-No.: 213-668-5 | 100 |

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a doctor.

First-aid measures after skin contact

: Rinse skin with water/shower. Take off immediately all contaminated clothing. Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/.... Wash contaminated clothing before reuse. Call a physician immediately.

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|                                      |                                                                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately. |
| First-aid measures after ingestion   | : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.         |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Symptoms/effects                    | : Causes severe skin burns and eye damage. |
| Symptoms/effects after inhalation   | : Toxic if inhaled.                        |
| Symptoms/effects after skin contact | : Toxic in contact with skin. Burns.       |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                  |
| Symptoms/effects after ingestion    | : Harmful if swallowed. Burns.             |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Foam. Dry powder. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                    |
|--------------------------------------------------|----------------------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapour.              |
| Explosion hazard                                 | : May form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                     |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                                                                  |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapours/spray. |

#### 6.1.2. For emergency responders

|                      |                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                                                              |

### 6.2. Environmental precautions

Avoid release to the environment. Harmful to aquatic life with long lasting effects.

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### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.                                                                                        |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                                                                                                              |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Precautions for safe handling     | : No open flames. No smoking. Use only non-sparking tools. Do not breathe fume, dust, gas, vapours, spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product.                                                                                                                                                                                                                                                                                                                                                                                      |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Comply with applicable regulations. |
| Storage conditions     | : Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a well-ventilated place. Keep cool. Store locked up.             |
| Incompatible materials | : Heat sources.                                                                                                                                                  |
| Packaging materials    | : Store always product in container of same material as original container.                                                                                      |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear a mask

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| Physical state                                  | : Liquid                                           |
| Colour                                          | : Colourless.                                      |
| Appearance                                      | : Clear liquid.                                    |
| Molecular mass                                  | : 161.41 g/mol                                     |
| Odour                                           | : ammonia like odour.                              |
| Odour threshold                                 | : Not available                                    |
| Melting point                                   | : Not applicable                                   |
| Freezing point                                  | : -78 °C                                           |
| Boiling point                                   | : 125 °C                                           |
| Flammability                                    | : Flammable<br>Highly flammable liquid and vapour. |
| Lower explosion limit                           | : 0.8 vol %                                        |
| Upper explosion limit                           | : 16.3 vol %                                       |
| Flash point                                     | : 14 °C                                            |
| Auto-ignition temperature                       | : 325 °C                                           |
| Decomposition temperature                       | : Not available                                    |
| pH                                              | : 8.5                                              |
| Viscosity, kinematic                            | : 0.9 mm²/s at 20°C                                |
| Solubility                                      | : Water: Insoluble in water<br>Acetone: Soluble    |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                    |
| Partition coefficient n-octanol/water (Log Pow) | : 2.62                                             |
| Vapour pressure                                 | : 19 hPa at 20°C                                   |
| Vapour pressure at 50°C                         | : Not available                                    |
| Density                                         | : 0.77 g/cm³ at 25 °C                              |

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|                                 |                  |
|---------------------------------|------------------|
| Relative density                | : Not available  |
| Relative vapour density at 20°C | : 4.6            |
| Particle characteristics        | : Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

|                  |                    |
|------------------|--------------------|
| Explosion limits | : 0.8 – 16.3 vol % |
|------------------|--------------------|

#### 9.2.2. Other safety characteristics

|                                            |                  |
|--------------------------------------------|------------------|
| Relative evaporation rate (butylacetate=1) | : < 1            |
| Refractive index                           | : 1.409 at 20 °C |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. Highly flammable liquid and vapour.

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Open flame. Direct sunlight. Sparks. Heat. Overheating. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.                          |
| Acute toxicity (dermal)           | : Toxic in contact with skin.                    |
| Acute toxicity (inhalation)       | : Inhalation:gas: Toxic if inhaled.              |
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: 8.5           |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage<br>pH: 8.5 |
| Respiratory or skin sensitisation | : Not classified                                 |
| Germ cell mutagenicity            | : Not classified                                 |
| Carcinogenicity                   | : Not classified                                 |
| Reproductive toxicity             | : Not classified                                 |
| STOT-single exposure              | : Not classified                                 |
| STOT-repeated exposure            | : Not classified                                 |
| Aspiration hazard                 | : Not classified                                 |

### 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS (999-97-3)

|                      |                   |
|----------------------|-------------------|
| Viscosity, kinematic | 0.9 mm²/s at 20°C |
|----------------------|-------------------|

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### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Harmful if swallowed, Harmful in contact with skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Ecology - water : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

| 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS (999-97-3) |                    |
|------------------------------------------------------------|--------------------|
| Persistence and degradability                              | Rapidly degradable |

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container. Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3286 |
| UN-No. (IMDG) | : UN 3286 |
| UN-No. (IATA) | : UN 3286 |
| UN-No. (ADN)  | : UN 3286 |
| UN-No. (RID)  | : UN 3286 |

### 14.2. UN proper shipping name

|                                       |                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.                                                                   |
| Proper Shipping Name (IMDG)           | : FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.                                                                   |
| Proper Shipping Name (IATA)           | : Flammable liquid, toxic, corrosive, n.o.s.                                                                   |
| Proper Shipping Name (ADN)            | : FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.                                                                   |
| Proper Shipping Name (RID)            | : FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.                                                                   |
| Transport document description (ADR)  | : UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (1,1,1,3,3,3-HEXAMETHYL DISILAZANE), 3 (6.1+8), II, (D/E) |
| Transport document description (IMDG) | : UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II                                            |
| Transport document description (IATA) | : UN 3286 Flammable liquid, toxic, corrosive, n.o.s. (1,1,1,3,3,3-HEXAMETHYL DISILAZANE), 3 (6.1+8), II        |
| Transport document description (ADN)  | : UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II                                            |
| Transport document description (RID)  | : UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II                                            |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |              |
|----------------------------------|--------------|
| Transport hazard class(es) (ADR) | : 3 (6.1, 8) |
| Danger labels (ADR)              | : 3, 6.1, 8  |



#### IMDG

|                                   |              |
|-----------------------------------|--------------|
| Transport hazard class(es) (IMDG) | : 3 (6.1, 8) |
| Danger labels (IMDG)              | : 3, 6.1, 8  |



#### IATA

|                                   |              |
|-----------------------------------|--------------|
| Transport hazard class(es) (IATA) | : 3 (6.1, 8) |
| Danger labels (IATA)              | : 3, 6.1, 8  |



#### ADN

|                                  |              |
|----------------------------------|--------------|
| Transport hazard class(es) (ADN) | : 3 (6.1, 8) |
| Danger labels (ADN)              | : 3, 6.1, 8  |



#### RID

|                                  |              |
|----------------------------------|--------------|
| Transport hazard class(es) (RID) | : 3 (6.1, 8) |
| Danger labels (RID)              | : 3, 6.1, 8  |

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### 14.4. Packing group

|                      |      |
|----------------------|------|
| Packing group (ADR)  | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

|                                                                         |               |
|-------------------------------------------------------------------------|---------------|
| Classification code (ADR)                                               | : FTC         |
| Special provisions (ADR)                                                | : 274         |
| Limited quantities (ADR)                                                | : 1I          |
| Excepted quantities (ADR)                                               | : E2          |
| Packing instructions (ADR)                                              | : P001, IBC02 |
| Mixed packing provisions (ADR)                                          | : MP19        |
| Portable tank and bulk container instructions (ADR)                     | : T11         |
| Portable tank and bulk container special provisions (ADR)               | : TP2, TP27   |
| Tank code (ADR)                                                         | : L4BH        |
| Tank special provisions (ADR)                                           | : TU15        |
| Vehicle for tank carriage                                               | : FL          |
| Transport category (ADR)                                                | : 2           |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28  |
| Special provisions for carriage - Operation (ADR)                       | : S2, S22     |
| Hazard identification number (Kemler No.)                               | : 368         |
| Orange plates                                                           | :             |



|                               |         |
|-------------------------------|---------|
| Tunnel restriction code (ADR) | : D/E   |
| EAC code                      | : •3WE  |
| APP code                      | : A(fl) |

#### Transport by sea

|                                    |                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions (IMDG)          | : 274                                                                                                                                        |
| Limited quantities (IMDG)          | : 1 L                                                                                                                                        |
| Excepted quantities (IMDG)         | : E2                                                                                                                                         |
| Packing instructions (IMDG)        | : P001                                                                                                                                       |
| IBC packing instructions (IMDG)    | : IBC99                                                                                                                                      |
| Tank instructions (IMDG)           | : T11                                                                                                                                        |
| Tank special provisions (IMDG)     | : TP2, TP13, TP27                                                                                                                            |
| EmS-No. (Fire)                     | : F-E                                                                                                                                        |
| EmS-No. (Spillage)                 | : S-C                                                                                                                                        |
| Stowage category (IMDG)            | : B                                                                                                                                          |
| Stowage and handling (IMDG)        | : SW2                                                                                                                                        |
| Segregation (IMDG)                 | : SG5, SG8                                                                                                                                   |
| Properties and observations (IMDG) | : Flammable, toxic, corrosive liquid. Toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and mucous membranes. |
| MFAG-No                            | : 131                                                                                                                                        |

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### Air transport

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y340 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 352  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 363  |
| CAO max net quantity (IATA)                  | : 5L   |
| ERG code (IATA)                              | : 3CP  |

### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : FTC                |
| Special provisions (ADN)          | : 274, 802           |
| Limited quantities (ADN)          | : 1 L                |
| Excepted quantities (ADN)         | : E2                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP, EP, EX, TOX, A |
| Ventilation (ADN)                 | : VE01, VE02         |
| Number of blue cones/lights (ADN) | : 2                  |

### Rail transport

|                                                                         |               |
|-------------------------------------------------------------------------|---------------|
| Classification code (RID)                                               | : FTC         |
| Special provisions (RID)                                                | : 274         |
| Limited quantities (RID)                                                | : 1L          |
| Excepted quantities (RID)                                               | : E2          |
| Packing instructions (RID)                                              | : P001, IBC02 |
| Mixed packing provisions (RID)                                          | : MP19        |
| Portable tank and bulk container instructions (RID)                     | : T11         |
| Portable tank and bulk container special provisions (RID)               | : TP2, TP27   |
| Tank codes for RID tanks (RID)                                          | : L4BH        |
| Special provisions for RID tanks (RID)                                  | : TU15        |
| Transport category (RID)                                                | : 2           |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28  |
| Colis express (express parcels) (RID)                                   | : CE7         |
| Hazard identification number (RID)                                      | : 368         |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                                                 |
|----------------------------------------|-------------------------------------------------|
| Reference code                         | Applicable on                                   |
| 3(a)                                   | 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS |
| 3(b)                                   | 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS |
| 3(c)                                   | 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS |
| 40.                                    | 1,1,1,3,3,3-HEXAMETHYL DISILAZANE FOR SYNTHESIS |

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

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### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

- Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 7824).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : The substance is not listed
- SZW-lijst van mutagene stoffen : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

#### Denmark

- MAL code : 00-6 (Executive Order No. 301 from 1993)
- Class for fire hazard : Class I-1
- Store unit : 1 liter
- Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information Abbreviations and acronyms:

|     |                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
|     |                                                                                                 |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE | Acute Toxicity Estimate                                                                         |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| BCF                         | Bioconcentration factor                                                      |
| BLV                         | Biological limit value                                                       |
| BOD                         | Biochemical oxygen demand (BOD)                                              |
| COD                         | Chemical oxygen demand (COD)                                                 |
| DMEL                        | Derived Minimal Effect level                                                 |
| DNEL                        | Derived-No Effect Level                                                      |
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| EN                          | European Standard                                                            |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| VOC                         | Volatile Organic Compounds                                                   |
| CAS-No.                     | Chemical Abstract Service number                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties                                              |

| Full text of H- and EUH-statements: |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3<br>(Inhalation:gas)    | Acute toxicity (inhalation:gas) Category 3                        |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |

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| Full text of H- and EUH-statements: |                                                        |
|-------------------------------------|--------------------------------------------------------|
| Flam. Liq. 2                        | Flammable liquids, Category 2                          |
| H225                                | Highly flammable liquid and vapour.                    |
| H302                                | Harmful if swallowed.                                  |
| H311                                | Toxic in contact with skin.                            |
| H314                                | Causes severe skin burns and eye damage.               |
| H331                                | Toxic if inhaled.                                      |
| H412                                | Harmful to aquatic life with long lasting effects.     |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.